Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	108,556,396	178,483,569	287,039,965
Air Emissions	63,602,506	95,718,441	159,320,947
Surface Water Discharges	5,778,926	389,243	6,168,169
Underground Injection Class I Wells	13,329,724	17,841,000	31,170,724
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,378,051	50,522,000	51,900,051
Other On-site Land Releases	24,467,189	14,012,885	38,480,074
Off-site Releases (Transfers Off-site to Disposal)*	35,777,962	13,450,349	49,228,311
Total On- and Off-site Releases	144,334,358	191,933,918	336,268,276
Recycled On-site	268,220,342	25,901,182	294,121,524
Recycled Off-site	183,145,482	2,092,551	185,238,033
Energy Recovery On-site	115,563,551	0	115,563,551
Energy Recovery Off-site	35,621,104	43,058,799	78,679,903
Treated On-site	141,513,103	80,392,444	221,905,547
Treated Off-site **	34,776,713	27,564,344	62,341,057
Quantity Released On- and Off-site***	148,744,315	191,943,004	340,687,319
Total Production-related Waste Managed	927,584,610	370,952,324	1,298,536,934
Total Non-production-related Waste Managed	570,267	93,206	663,473

Transfers Off-site for Further Waste Management/Disposal

<u> </u>	<u> </u>		
Recycling	182,020,154	2,084,829	184,104,983
Energy Recovery	35,502,911	65,761,370	101,264,281
Treatment	15,056,822	4,490,954	19,547,776
Publicly Owned Treatment Works (POTWs)	16,876,712	128,548	17,005,260
Metals and Metal Compounds*	321,551	1,138	322,689
Non-metal TRI Chemicals**	16,555,161	127,410	16,682,571
Other Off-site Transfers****	8,071	0	8,071
Off-site Transfers to Disposal	44,680,805	13,786,844	58,467,649
(not including metals to POTWs)			
Total Transfers Off-site for Further	294,145,475	86,252,545	380,398,020
Waste Management/Disposal			

- * Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- *** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- ****Transfers reported without a valid waste management code.

For More Information . . .

 State Contact:
 EPA Regional Contact:

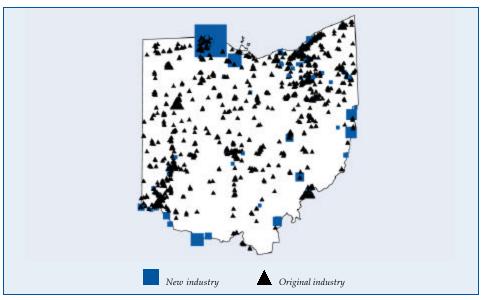
 Cindy DeWulf
 Thelma Codina

 (614) 644-3606
 (312) 886-6219

 Fax: (614) 644-3681
 Fax: (312) 353-4788

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531 Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Ohio. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Square Miles	
	40,953
Total Facilities	1,682
Total Forms	6,390
Form As	1,091
Original Industries New Industries	Total

			,
	Original Industries	New Industries	Total
National Rank for Total On- and On	f-site Releases*		
Rank	3	6	4
Pounds	144,334,358	191,933,918	336,268,276
National Rank for Total On-site Rel	eases**		
Rank	3	6	6
Pounds	108,556,396	178,483,569	287,039,965
National Rank for Total Releases w	ithin State***		
Rank	3	6	4
Pounds	146,223,967	192,607,698	338,831,665
National Rank for Production-relate	ed Waste Managed		
Rank	6	4	6
Pounds	927,584,610	370,952,324	1,298,536,934

- Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Includes amounts released at the facility. Excludes amounts transferred to other sites.
- *** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

			On-site R	Releases		Off-site Releases		Off-si	te Transfers to Dispo	osal
			Surface		On-site	Transfers	Total	Transferred	Transferred	Transferred
		Air	Water	Underground	Releases to	Off-site to	Releases in	Into	Within	Out of
CAS		Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State
Number	Chemical	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
_	Manganese compounds	518,270	767,757	250	17,417,595	6,387,260	25,091,132	5,566,142	5,553,432	945,379
7664-41-7	Ammonia	10,883,202	378,472	1,659,400	59,280	219,021	13,199,375	458,786	178,471	55,693
_	Zinc compounds	251,012	12,265	0	4,970,660	6,443,150	11,677,087	25,976,684	6,592,477	1,613,019
75-05-8	Acetonitrile	104,157	0	6,850,000	0	0	6,954,157	21,032	0	0
7440-47-3	Chromium	132,315	1,119	0	2,452	6,483,753	6,619,639	603,892	6,567,962	19,791
463-58-1	Carbonyl sulfide	4,809,127	0	0	0	0	4,809,127	0	0	0
_	Nitrate compounds	4,188	4,396,591	244,000	44	112,633	4,757,456	111,141	50,140	62,493
67-56-1	Methanol	4,301,242	62,203	27,000	0	6,513	4,396,958	65,566	6,432	81
1330-20-7	Xylene (mixed isomers)	4,215,881	2,517	0	7	9,064	4,227,469	11,703	2,946	6,118
_	Glycol ethers	3,995,702	10	0	650	82,267	4,078,629	21,499	77,324	4,943

Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.
 The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

			On-site R	eleases		Off-site Releases		Off-s	ite Transfers to Dispo	sal
			Surface		On-site	Transfers	Total	Transferred	Transferred	Transferred
		Air	Water	Underground	Releases to	Off-site to	Releases in	Into	Within	Out of
CAS		Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State
Number	Chemical	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
7647-01-0	Hydrochloric acid	68,615,417	1	0	0	0	68,615,418	0	0	0
7440-66-6	Zinc (fume or dust)	2,135	355	0	42,000,000	133,505	42,135,995	250	74,255	59,250
7664-93-9	Sulfuric acid	20,752,002	1	0	0	0	20,752,003	0	0	0
7664-39-3	Hydrogen fluoride	5,655,850	1	2,900,000	0	29,100	8,584,951	0	12,100	17,000
_	Barium compounds	25,703	84,041	0	5,824,058	1,829,236	7,763,038	84,675	1,792,527	68,068
7697-37-2	Nitric acid	116	0	5,300,000	0	31,000	5,331,116	28,557	0	31,000
_	Nitrate compounds	0	750	4,800,000	0	341,452	5,142,202	363	340,000	1,452
_	Nickel compounds	12,545	25,394	310,000	1,081,825	3,307,253	4,737,017	16,870	3,278,633	35,100
_	Zinc compounds	22,406	96,690	350,000	1,353,890	2,862,600	4,685,586	228,415	2,815,512	67,100
	Chromium compounds	11,553	8,221	660,000	1,155,035	2,007,750	3,842,559	33,665	1,960,150	74,830

Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

^{**} The chemical ranking is based on the amounts in this column.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

			On-site Re	leases				Off-site Re (Transfers Off-sit	
			Underground		On-site Rele	ases to Land		(1141131013 011 311	e to Bisposii)
	Air Emissions	Surface Water Discharges	Class I Wells	Class II-V Wells	RCRA Subtitle C Landfills	Other On-site Land Releases	Total On-site Releases*	Transferred Within State	Transferred Out of State
Facility, City, County	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Elkem Metals Co., Marietta, Washington	3,954,177	773,000	0	0	0	9,864,000	14,591,177	0	76,000
BP Chemicals Inc., Lima, Allen	563,709	0	13,323,037	0	0	0	13,886,746	420	360
GM Powertrain Defiance, Defiance	833,151	12,519	0	0	0	6,274,074	7,119,744	1,273	10
Millennium Inorganic Chemicals Inc. — Plant 2, Ashtabula, Ashtabula	3,611,132	140,000	0	0	0	3,300,000	7,051,132	0	0
Millennium Inorganic Chemicals Inc. — Plant 1, Ashtabula, Ashtabula	1,204,273	180,000	0	0	0	2,000,000	3,384,273	0	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,327,065	52,145	0	0	0	0	3,379,210	0	0
Armco Inc. Coshocton Ops., Coshocton, Coshocton	26,620	2,001,550	0	0	0	0	2,028,170	150,840	0
Owens Corning, Newark, Licking	1,780,818	0	0	0	0	79,925	1,860,743	33,818	0
Scotts Co., Marysville, Union	1,724,646	2,196	0	0	0	0	1,726,842	3,042	1,584
LTV Steel Co. Inc., Cleveland Works, Cleveland, Cuyahoga	50,561	1,880	0	0	1,358,140	0	1,410,581	467,233	11,204

^{*}The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

			On-site Re	leases				Off-site R (Transfers Off-si	
			Underground	Injection	On-site Rele	ases to Land			
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Envirosafe Services of Ohio Inc., Oregon, Lucas	1,143	0	0	0	50,522,000	0	50,523,143	2,270	78,625
Waste Management of Ohio Inc., Vickery, Sandusky	7	0	17,841,000	0	0	0	17,841,007	0	69,264
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	12,808,504	12,778	0	0	0	3,270,000	16,091,282	0	10
Cardinal Plant, Brilliant, Jefferson	11,323,277	158,690	0	0	0	1,696,280	13,178,247	222	7,365
Firstenergy, W.H. Sammis Plant, Stratton, Jefferson	12,115,408	11,273	0	0	0	2,146	12,128,827	2,134,500	0
American Electric Power Co., Muskingum River Plant, Beverly, Washington	7,930,873	23,399	0	0	0	951,020	8,905,292	1	4,038
Ohio Valley Electric Corp., Kyger Creek Station, Gallipolis, Gallia	7,707,645	15,331	0	0	0	1,008,100	8,731,076	10	0
American Electric Power Conesville Plant, Conesville, Coshocton	6,132,623	3,950	0	0	0	1,074,755	7,211,328	9,683	70
Firstenergy Corp., Eastlake Plant, Willoughby, Lake	6,346,570	3,787	0	0	0	0	6,350,357	617,000	0
CG&E Beckjord Generating Station, New Richmond, Clermont	5,416,190	9,897	0	0	0	399,045	5,825,132	252,800	28,560

^{*}The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

	Recycled On-site	Recycled Off-site	Energy Recovery On-site	Energy Recovery Off-site	Treated On-site	Treated Off-site	Quantity Released On- and Off-site*	Total Production- related Waste Managed	Total Non- Production- related Waste Managed
Facility, City, County	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Elkem Metals Co., Marietta, Washington	21,000	35,000	0	0	17,000	0	14,666,777	14,739,777	0
BP Chemicals Inc., Lima, Allen	3,744,000	0	7,254,400	0	3,746,000	20,634	13,880,683	28,645,717	520
GM Powertrain Defiance, Defiance	0	0	0	0	170,000	6,737	7,234,700	7,411,437	0
Millennium Inorganic Chemicals Inc. — Plant 2, Ashtabula, Ashtabula	0	0	0	0	3,401,221	0	7,011,132	10,412,353	0
American Steel Foundries, Alliance Plant, Alliance, Stark	58,000,000	0	0	0	0	81,000	5,815,121	63,896,121	0
Wheeling-Pittsburgh Steel Corp. Mingo Junction, Mingo Junction, Jefferson	0	0	0	0	0	0	4,189,210	4,189,210	0
Timken Co. — Faircrest Steel Plant, Canton, Stark	229,950	198,400	0	0	0	0	4,080,000	4,508,350	0
Millennium Inorganic Chemicals Inc. — Plant 1, Ashtabula, Ashtabula	0	0	0	0	4,700,097	0	3,404,295	8,104,392	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,040,000	0	0	0	3,072,000	0	3,378,600	9,490,600	3,100
CSC Ltd., Warren, Trumbull	0	0	0	0	0	0	3,043,200	3,043,200	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

	Recycled On-site	Recycled Off-site	Energy Recovery On-site	Energy Recovery Off-site	Treated On-site	Treated Off-site	Quantity Released On- and Off-site*	Total Production- related Waste Managed	Total Non- Production- related Waste Managed
Facility, City, County	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Envirosafe Services of Ohio Inc., Oregon, Lucas	0	0	0	0	0	0	50,522,000	50,522,000	0
Waste Management of Ohio Inc., Vickery, Sandusky	0	0	0	0	0	2,847	17,841,000	17,843,847	0
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	0	0	0	0	8,536,000	0	16,082,000	24,618,000	0
Firstenergy, W.H. Sammis Plant, Stratton, Jefferson	0	0	0	0	0	0	14,742,700	14,742,700	15
Cardinal Plant, Brilliant, Jefferson	0	108,300	0	0	2,000,000	0	13,193,000	15,301,300	0
American Electric Power Co., Muskingum River Plant, Beverly, Washington	0	98,700	0	0	1,300,000	0	8,908,000	10,306,700	0
Ohio Valley Electric Corp., Kyger Creek Station, Gallipolis, Gallia	0	0	0	0	1,800,000	0	8,738,000	10,538,000	0
Envirite of Ohio Inc., Canton, Stark	0	270,736	0	0	1,500,000	0	8,160,100	9,930,836	0
American Electric Power Conesville Plant, Conesville, Coshocton	0	45,700	0	0	7,270,000	0	7,214,500	14,530,200	0
Firstenergy Corp., Eastlake Plant, Willoughby, Lake	0	0	0	0	0	0	6,966,000	6,966,000	12

^{*}The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.